10528612

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* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS 1   Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2   "Ask CAS" for self-help around the clock
 NEWS 3   OCT 23   The Derwent World Patents Index suite of databases on STN
                    has been enhanced and reloaded
 NEWS 4   OCT 30   CHEMLIST enhanced with new search and display field
 NEWS 5   NOV 03   JAPIO enhanced with IPC 8 features and functionality
 NEWS 6   NOV 10   CA/CAplus F-Term thesaurus enhanced
 NEWS 7   NOV 10   STN Express with Discover! free maintenance release Version
                    8.01c now available
 NEWS 8   NOV 20   CA/CAplus to MARPAT accession number crossover limit increased
                    to 50,000
 NEWS 9   DEC 01   CAS REGISTRY updated with new ambiguity codes
 NEWS 10   DEC 11   CAS REGISTRY chemical nomenclature enhanced
 NEWS 11   DEC 14   WPIDS/WPINDEX/WPIX manual codes updated
 NEWS 12   DEC 14   GBFULL and FRFULL enhanced with IPC 8 features and
                    functionality
 NEWS 13   DEC 18   CA/CAplus pre-1967 chemical substance index entries enhanced
                    with preparation role
 NEWS 14   DEC 18   CA/CAplus patent kind codes updated
 NEWS 15   DEC 18   MARPAT to CA/CAplus accession number crossover limit increased
                    to 50,000
 NEWS 16   DEC 18   MEDLINE updated in preparation for 2007 reload
 NEWS 17   DEC 27   CA/CAplus enhanced with more pre-1907 records
 NEWS 18   JAN 08   CHEMLIST enhanced with New Zealand Inventory of Chemicals
 NEWS 19   JAN 16   CA/CAplus Company Name Thesaurus enhanced and reloaded
 NEWS 20   JAN 16   IPC version 2007.01 thesaurus available on STN
 NEWS 21   JAN 16   WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
 NEWS 22   JAN 22   CA/CAplus updated with revised CAS roles
 NEWS 23   JAN 22   CA/CAplus enhanced with patent applications from India
 NEWS 24   JAN 29   PHAR reloaded with new search and display fields
 NEWS 25   JAN 29   CAS Registry Number crossover limit increased to 300,000 in
                    multiple databases

 NEWS EXPRESS   NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
                 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                 AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

 NEWS HOURS   STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN   Welcome Banner and News Items
 NEWS IPC8   For general information regarding STN implementation of IPC 8
 NEWS X25   X.25 communication option no longer available

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FILE 'HOME' ENTERED AT 08:28:51 ON 08 FEB 2007

=> fil reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                    ENTRY   SESSION
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FILE 'REGISTRY' ENTERED AT 08:29:43 ON 08 FEB 2007
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DICTIONARY FILE UPDATES: 7 FEB 2007   HIGHEST RN 919834-45-0

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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predicted properties as well as tags indicating availability of
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http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10528612Intermed.str
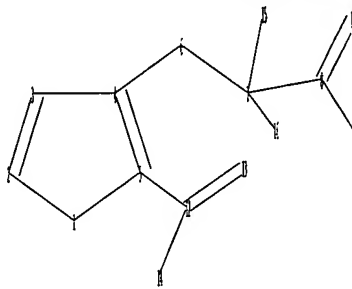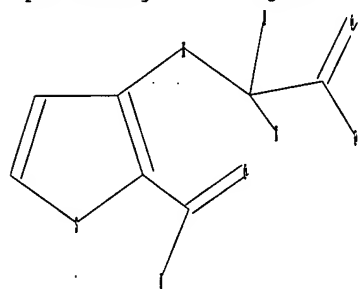
chain nodes :
6   7   8   9   10   12   13   14   15   16
ring nodes :
1   2   3   4   5
chain bonds :
4-6   5-12   6-7   7-8   7-15   7-16   8-9   8-10   12-13   12-14
ring bonds :
1-2   1-5   2-3   3-4   4-5
exact/norm bonds :
4-6   6-7   8-9   8-10   12-13
exact bonds :

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1-2　1-5　2-3　3-4　4-5　5-12　7-8　7-15　7-16　12-14
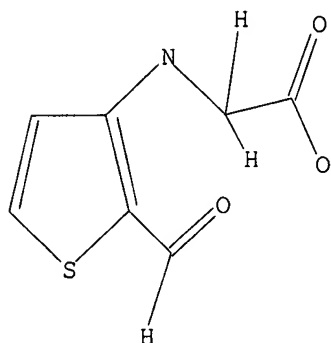isolated ring systems :
containing 1 :

Match level :
1:Atom　2:Atom　3:Atom　4:Atom　5:Atom　6:Atom　7:Atom　8:CLASS　9:CLASS　10:CLASS
12:CLASS　13:CLASS　14:CLASS　15:CLASS　16:CLASS

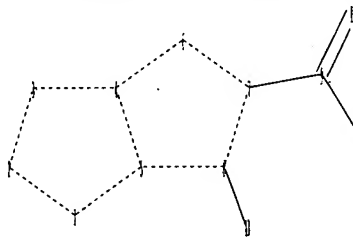L1　　　STRUCTURE UPLOADED

=> d l1
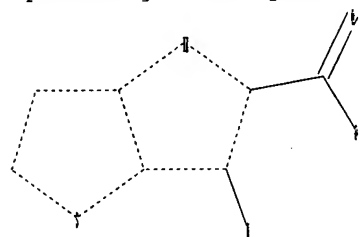L1 HAS NO ANSWERS
L1　　　　　　　STR

Structure attributes must be viewed using STN Express query preparation.

=>
Uploading C:\Program Files\Stnexp\Queries\10528612finalProd.str

chain nodes :
9　10　11　13
ring nodes :
1　2　3　4　5　6　7　8
chain bonds :
7-9　8-13　9-10　9-11
ring bonds :
1-2　1-5　2-3　3-4　4-5　4-6　5-8　6-7　7-8
exact/norm bonds :
1-2　1-5　2-3　3-4　4-5　4-6　5-8　6-7　7-8　9-10　9-11
exact bonds :
7-9　8-13
isolated ring systems :
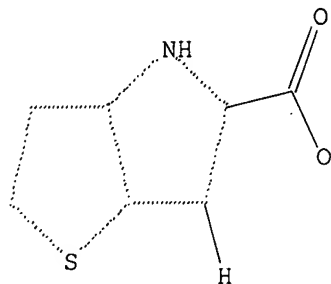containing 1 :

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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS
11:CLASS 13:CLASS

L2   STRUCTURE UPLOADED

=> d l2
L2 HAS NO ANSWERS
L2   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l2
SAMPLE SEARCH INITIATED 08:30:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   101 TO ITERATE

100.0% PROCESSED   101 ITERATIONS   6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 1418 TO   2622
PROJECTED ANSWERS: 6 TO   266

L3   6 SEA SSS SAM L2

=> s l2 full
FULL SEARCH INITIATED 08:30:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   2342 TO ITERATE

100.0% PROCESSED   2342 ITERATIONS   76 ANSWERS
SEARCH TIME: 00.00.01

L4   76 SEA SSS FUL L2

=> s l1
SAMPLE SEARCH INITIATED 08:30:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   17 TO ITERATE

100.0% PROCESSED   17 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 93 TO   587
PROJECTED ANSWERS: 0 TO   0

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L5   0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 08:31:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   504 TO ITERATE

100.0% PROCESSED   504 ITERATIONS   3 ANSWERS
SEARCH TIME: 00.00.01

L6   3 SEA SSS FUL L1

=> fil hcaplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   344.20   344.62

FILE 'HCAPLUS' ENTERED·AT 08:31:09 ON 08 FEB 2007
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FILE COVERS 1907 - 8 Feb 2007 VOL 146 ISS 7
FILE LAST UPDATED: 7 Feb 2007 (20070207/ED)

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=> d his

   · (FILE 'HOME' ENTERED AT 08:28:51 ON 08 FEB 2007)

     FILE 'REGISTRY' ENTERED AT 08:29:43 ON 08 FEB 2007
L1   STRUCTURE UPLOADED
L2   STRUCTURE UPLOADED
L3   6 S L2
L4   76 S L2 FULL
L5   0 S L1
L6   3 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 08:31:09 ON 08 FEB 2007

=> s l4
L7   54 L4

=> s l6
L8   3 L6

=> s l4 and l6
         54 L4
        · 3 L6

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L9   3 L4 AND L6

=> d ed ibib abs hitstr 1-3

10528612

ED   Entered STN: 27 Sep 2006
ACCESSION NUMBER: 2006:1001125 HCAPLUS
DOCUMENT NUMBER: 146:215
TITLE: Novel thienopyrrole glycogen phosphorylase
inhibitors:
                         Synthesis, in vitro SAR and crystallographic studies
AUTHOR(S):   Whittamore, Paul R. O.; Addie, Matthew S.; Bennett,
                         Stuart N. L.; Birch, Alan M.; Butters, Michael;
                         Godfrey, Linda; Kenny, Peter W.; Morley, Andrew D.;
                         Murray, Paul M.; Oikonomakos, Nikos G.; Otterbein,
                         Ludovic R.; Pannifer, Andrew D.; Parker, Jeremy S.;
                         Readman, Kristy; Siedlecki, Pawel S.; Schofield,
Paul;
                         Stocker, Andy; Taylor, Melvyn J.; Townsend, Linda A.;
                         Whalley, David P.; Whitehouse, Jennifer
CORPORATE SOURCE: AstraZeneca, Cheshire, SK10 4TG, UK
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006),
                         16(21), 5567-5571
                         CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB   Two series of novel thienopyrrole inhibitors of recombinant human liver
     glycogen phosphorylase a (GPa) which are effective in reducing glucose
     output from rat hepatocytes are described. Representative compds. have
     been shown to bind at the dimer interface site of the rabbit muscle
enzyme
     by X-ray crystallog.
IT   403860-09-3P 403860-11-7P 679794-57-1P
     679794-58-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
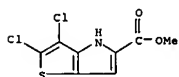   (Reactant or reagent)
        (thienopyrroles as glycogen phosphorylase inhibitors)
RN   403860-09-3 HCAPLUS
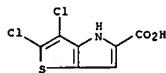CN   4H-Thieno[3,2-b]pyrrole-5-carboxylic acid, 2,3-dichloro-, methyl ester
     (9CI) (CA INDEX NAME)

RN   403860-11-7 HCAPLUS
CN   4H-Thieno[3,2-b]pyrrole-5-carboxylic acid, 2,3-dichloro- (9CI) (CA INDEX
     NAME)

RN   679794-57-1 HCAPLUS
CN   Glycine, N-(4,5-dichloro-2-formyl-3-thienyl)-N-[(1,1-
     dimethylethoxy)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

RN   679794-58-2 HCAPLUS
CN   Glycine, N-acetyl-N-(4,5-dichloro-2-formyl-3-thienyl)-, methyl ester
(9CI)
        (CA INDEX NAME)

REFERENCE COUNT: 17   THERE ARE 17 CITED REFERENCES AVAILABLE FOR
THIS
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

ED   Entered STN: 15 Apr 2004
ACCESSION NUMBER: 2004:308441 HCAPLUS
DOCUMENT NUMBER: 140:339190
TITLE: Process for the preparation of thieno[3,2-b]pyrrole
                         derivatives
INVENTOR(S):   Butters, Michael; Schofield, Paul; Stocker, Andrew
PATENT ASSIGNEE(S):   Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 35 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

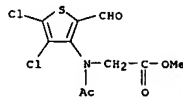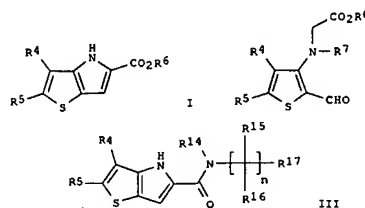| PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004031193	A1	20040415	WO 2003-GB4211	20030929
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2498843	A1	20040415	CA 2003-2498843	20030929
AU 2003267656	A1	20040423	AU 2003-267656	20030929
EP 1549653	A1	20050706	EP 2003-748348	20030929
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014312	A	20050126	BR 2003-14312	20030929
CN 1688588	A	20051026	CN 2003-823736	20030929
JP 2006503077	T	20060126	JP 2004-540938	20030929
NO 2005001047	A	20050428	NO 2005-1047	20050225
US 2005272938	A1	20051208	US 2005-528612	20050321
PRIORITY APPLN. INFO.:			GB 2002-22909	A 20021003
			WO 2003-GB4211	W 20030929

OTHER SOURCE(S):   MARPAT 140:339190
GI

AB   A safer process for preparing a compound of formula I (R4, R5 =
independently
     H, halo, nitro, fluoromethyl, etc.; R6 = H or a protecting group), which
     comprises cyclization of a compound of formula II (R7 = a nitrogen
     protecting group) and removing the group R7 or any protecting group R6,
is
     disclosed. For example, chlorination of thiophene-3-carboxaldehyde (78%)
     and oxidation, gave 4,5-dichlorothiophene-3-carboxylic acid. Curtius
     rearrangement of the acid using diphenylphosphorylazide in the presence
of
     tert-butanol (78%), followed by formylation (63%), afforded tert-Bu
     (4,5-dichloro-2-formyl-3-thienyl)carbamate. Substitution of the
carbamate
     with Me bromoacetate and hydrolysis by acetic acid, provided Me
     N-acetyl-N-(4,5-dichloro-2-formyl-3-thienyl)glycinate, II (R4 = R5 = Cl,
     R6 = Me, R7 = COMe). Cyclization of II (45%), followed by hydrolysis
     (100%), gave the final compound 2,3-dichloro-4H-thieno[3,2-b]pyrrole-5-
     carboxylic acid, I (R4 = R5 = Cl, R6 = Me). The use of these novel
     intermediates in the formation of pharmaceutical compds. III (R4, R5 = as
     defined above; R14 =H, alkyl; R15 = H, halo, cyano, mercapto, etc.; R16 =
     H, alkyl; R17 = H, halo, amino, hydroxy, carbamoyl, etc.) is also
claimed.
IT   403860-09-3P 679794-57-1P 679794-58-2P
     RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
     preparation); PREP (Preparation); RACT (Reactant or reagent)
        (preparation of thieno[3,2-b]pyrrole carboxylic acid via cyclization
of
        (formylthienyl)glycinate derivative)
RN   403860-09-3 HCAPLUS
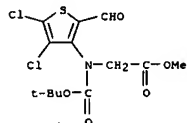CN   4H-Thieno[3,2-b]pyrrole-5-carboxylic acid, 2,3-dichloro-, methyl ester
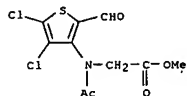   (9CI) (CA INDEX NAME)
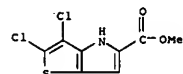
RN   679794-57-1 HCAPLUS

CN   Glycine, N-(4,5-dichloro-2-formyl-3-thienyl)-N-[(1,1-
     dimethylethoxy)carbonyl]-, methyl ester (9CI)   (CA INDEX NAME)


RN   679794-58-2 HCAPLUS
CN   Glycine, N-acetyl-N-(4,5-dichloro-2-formyl-3-thienyl)-, methyl ester
(9CI)
        (CA INDEX NAME)

IT   403860-11-7P
     RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
     (Preparation)
         (preparation of thieno[3,2-b]pyrrole carboxylic acid via cyclization
of
         (formylthienyl)glycinate derivative)
RN   403860-11-7 HCAPLUS
CN   4H-Thieno[3,2-b]pyrrole-5-carboxylic acid, 2,3-dichloro- (9CI)   (CA INDEX
     NAME)
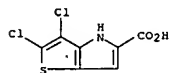
REFERENCE COUNT: 18   THERE ARE 18 CITED REFERENCES AVAILABLE FOR
THIS
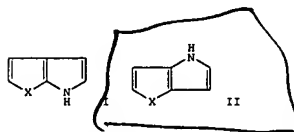   RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT
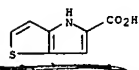
IT   46193-76-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (preparation and hydrolysis of)
RN   46193-76-4 HCAPLUS
CN   4H-Thieno[3,2-b]pyrrole-5-carboxylic acid, ethyl ester (7CI, 9CI)   (CA
     INDEX NAME)
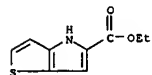
ED   Entered STN: 12 May 1984
ACCESSION NUMBER: 1979:103864 HCAPLUS
DOCUMENT NUMBER: 90:103864
TITLE: Studies on heterocyclic series. XXIX. Routes to
                        thieno-, selenolo-, furo-, and pyrrolopyrroles
AUTHOR(S):   Soth, Samreth; Farnier, Michel; Paulmier, Claude
CORPORATE SOURCE: Lab. Polarogr. Org., Fac. Sci. Gabriel, Dijon, Fr.
SOURCE: Canadian Journal of Chemistry (1978), 56(10), 1429-34
                        CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: French
GI

AB   The reaction of EtO2CCH2N3 with the monoaldehydes of furan, thiophene and
     selenophene followed by cyclization, hydrolysis, and decarboxylation gave
     the pyrrolo compds. I (X = O, S, Se) and II (X = O, S, Se). I (X = N)
was
     prepared by this route using Et 4-formylpyrrole-2-carboxylate as the
     substrate. II (X = S, Se) were also obtained by the action of EtO2CCH2Br
     on 3-acetamidothiophene-2-aldehyde, or the corresponding seleno compound,
     followed by cyclization of the N-substituted acetamide products.
IT   67268-40-0P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (preparation and cyclization of)
RN   67268-40-0 HCAPLUS
CN   Glycine, N-acetyl-N-(2-formyl-3-thienyl)-, ethyl ester (9CI)   (CA INDEX
     NAME)
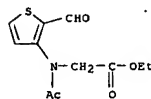
IT   39793-31-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
         (preparation and decarboxylation of)
RN   39793-31-2 HCAPLUS
CN   4H-Thieno[3,2-b]pyrrole-5-carboxylic acid (6CI, 7CI, 9CI)   (CA INDEX
NAME)

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=> log h
COST IN U.S. DOLLARS                         SINCE FILE        TOTAL
                                               ENTRY         SESSION
FULL ESTIMATED COST                            23.61          368.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE        TOTAL
                                               ENTRY         SESSION
CA SUBSCRIBER PRICE                            -2.34           -2.34

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:33:01 ON 08 FEB 2007
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